**DON BOSCO INSTITUTE OF TECHNOLOGY, KURLA**

**EXTC DEPARTMENT SE- SEM IV**

**MINI PROJECT FOR THE SUBJECT : PYTHON**

**ACADEMIC YEAR : 2021-2022**

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**TITLE : PHONE NUMBER TRACKER USING GUI**

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**PURPOSE OF PHONE NUMBER TRACKER :** The phone number tracker tracks an indiviual’s phone number and provides us with some of the important details of an user. This tracker can check the entered phone number and tell us six different specifications. These specifications include :

1. COUNTRY
2. SIM OPERATOR
3. TIME ZONE
4. DATE & TIME
5. LONGITUDE
6. LATITUDE

**CODE :**

import tkinter as Tk

from tkinter import \*

import phonenumbers

from phonenumbers import carrier

from phonenumbers import geocoder

from phonenumbers import timezone

from timezonefinder import TimezoneFinder

from geopy.geocoders import Nominatim

from datetime import datetime

import pytz

root = Tk()

root.title("Phone Number Tracker")

root.geometry("365x584")

root.resizable(False, False)

root.configure(bg="#363062")

# background color code is #d896ff

# individual background color code is #d8b9ff

# san francisco number +14155553890

def track():

enter\_number = entry.get()

number = phonenumbers.parse(enter\_number)

# country

locate = geocoder.description\_for\_number(number, 'en')

country.config(text=locate)

# sim operators like jio,airtel

operator = carrier.name\_for\_number(number, 'en')

sim.config(text=operator)

# timezone

time = timezone.time\_zones\_for\_number(number)

zone.config(text=time)

# longitude and latitude

geolocator = Nominatim(user\_agent="geoapiExercises")

location = geolocator.geocode(locate)

lng = location.longitude

lat = location.latitude

longitude.config(text=lng)

latitude.config(text=lat)

# time showing in phone

obj = TimezoneFinder()

result = obj.timezone\_at(lng=location.longitude, lat=location.latitude)

home = pytz.timezone(result)

local\_time = datetime.now(home)

current\_time = local\_time.strftime("%I : %M %p")

clock.config(text=current\_time)

Heading = Label(root, text="TRACK NUMBER",fg="white", bg="#363062",

font=("arial", 25, "bold"), justify="center")

Heading.place(x=43, y=110)

entry = StringVar()

enter\_number = Entry(root, textvariable=entry, width=19, bd=0,

background="#827397", font=("arial", 15), justify="center")

enter\_number.place(x=75, y=200)

search = Button(text="SEARCH", width=18, bd=1, fg="white", bg="#827397",

font=("arial", 15), justify="center", command=track)

search.place(x=75, y=300)

country = Label(root, text="COUNTRY:", bg="#363062",

fg="white", font=("arial", 10, "bold"))

country.place(x=50, y=400)

sim = Label(root, text="SIM:", bg="#363062",

fg="white", font=("arial", 10, "bold"))

sim.place(x=200, y=400)

zone = Label(root, text="TIME ZONE:", bg="#363062",

fg="white", font=("arial", 10, "bold"))

zone.place(x=50, y=450)

clock = Label(root, text="PHONE TIME:", bg="#363062",

fg="white", font=("arial", 10, "bold"))

clock.place(x=200, y=450)

longitude = Label(root, text="LONGITUDE:", bg="#363062",

fg="white", font=("arial", 10, "bold"))

longitude.place(x=50, y=500)

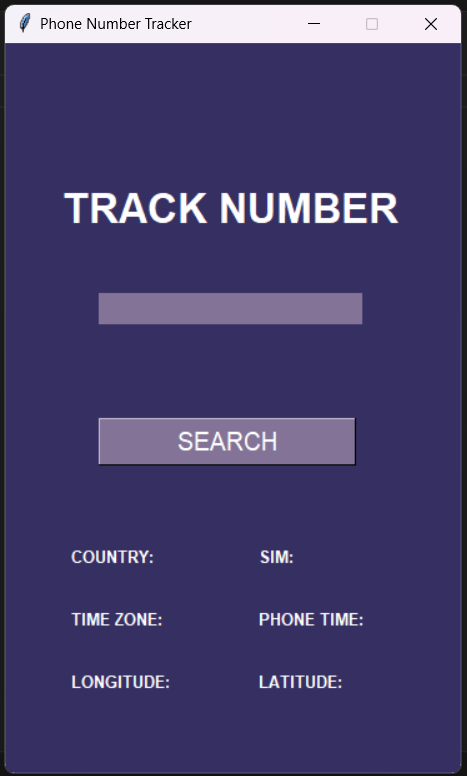
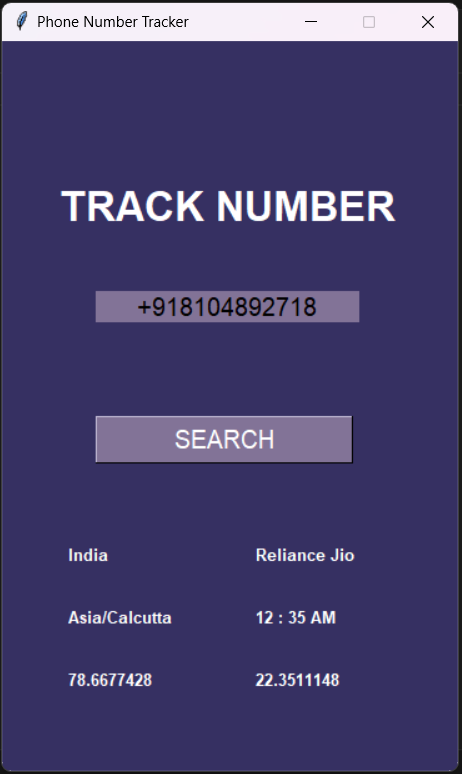
latitude = Label(root, text="LATITUDE:", bg="#363062",

fg="white", font=("arial", 10, "bold"))

latitude.place(x=200, y=500)

root.mainloop()

**OUTPUT :**

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**CONCLUSION :**

1. We learnt what is GUI and how to use it
2. Installation of different libraries was necessary in order to collect the data and complete the execution.